

January 2002

Tests 2023 & 2024: Case IH JX 95 Diesel

Follow this and additional works at: <http://digitalcommons.unl.edu/tractormuseumlit>



Part of the [Applied Mechanics Commons](#)

"Tests 2023 & 2024: Case IH JX 95 Diesel" (2002). *Nebraska Tractor Tests*. 204.
<http://digitalcommons.unl.edu/tractormuseumlit/204>

This Article is brought to you for free and open access by the Tractor Test and Power Museum, The Lester F. Larsen at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Nebraska Tractor Tests by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

SUMMARY OF OECD TESTS 2023 & 2024—NEBRASKA SUMMARY 406

CASE IH JX 95 DIESEL

12 SPEED

POWER TAKE-OFF PERFORMANCE

Power HP (kW)	Crank shaft speed rpm	Gal/hr (l/h)	lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Mean Atmospheric Conditions
MAXIMUM POWER AND FUEL CONSUMPTION					
Rated Engine Speed (PTO speed-614 rpm)					
81.7 (60.9)	2500	4.82 (18.24)	0.408 (0.248)	16.95 (3.34)	
Maximum Power(2 hours)					
83.8 (62.1)	2350	4.72 (17.87)	0.391 (0.238)	17.66 (3.48)	
Standard Power Take-off Speed (540 rpm)					
81.7 (60.9)	2200	4.47 (16.93)	0.378 (0.230)	18.27 (3.60)	

VARYING POWER AND FUEL CONSUMPTION

81.7 (60.9)	2500	4.82 (18.24)	0.408 (0.248)	16.95 (3.34)	Air temperature
71.2 (53.1)	2560	4.24 (16.05)	0.411 (0.250)	16.80 (3.31)	68°F (20°C)
54.0 (40.3)	2595	3.42 (12.95)	0.437 (0.266)	15.79 (3.11)	Relative humidity
36.5 (27.2)	2635	2.65 (10.02)	0.501 (0.305)	13.78 (2.72)	55%
18.5 (13.8)	2665	1.93 (7.32)	0.719 (0.438)	9.59 (1.89)	Barometer
--	2709	1.27 (4.79)	--	--	27.0" Hg (91.5 kPa)

Maximum Torque - 206.4 lb.-ft. (279.8 Nm) at 1300 rpm
 Maximum Torque Rise - 20.1%
 Torque rise at 2000 engine rpm - 18%

DRAWBAR PERFORMANCE

(Unballasted—Front Drive Engaged) FUEL CONSUMPTION CHARACTERISTICS

Power Hp (kW)	Drawbar pull lbs (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr (kg/kW.h)	Hp.hr/gal (kW.h/l)	Temp. °F cool- ing med	Temp. °C Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—10th (III-2) Gear									
66.3 (49.4)	2910 (12.94)	8.54 (13.75)	2498	9.7	0.503 (0.306)	13.71 (2.70)	169 (76)	81 (27)	27.0 (91.6)
75% of Pull at Maximum Power—10th (III-2) Gear									
52.1 (38.8)	2185 (9.71)	8.95 (14.40)	2590	8.8	0.571 (0.347)	12.08 (2.38)	169 (76)	81 (27)	27.0 (91.6)
50% of Pull at Maximum Power—10th (III-2) Gear									
35.6 (26.5)	1455 (6.47)	9.17 (14.76)	2626	7.8	0.687 (0.417)	10.05 (1.98)	169 (76)	81 (27)	27.0 (91.6)
75% of Pull at Reduced Engine Speed—11th (III-3) Gear									
52.1 (38.8)	2185 (9.72)	8.94 (14.38)	1795	8.9	0.480 (0.292)	14.37 (2.83)	169 (76)	81 (27)	27.0 (91.6)
50% of Pull at Reduced Engine Speed—11th (III-3) Gear									
35.8 (26.7)	1460 (6.50)	9.18 (14.78)	1827	8.0	0.542 (0.330)	12.73 (2.51)	169 (76)	81 (27)	27.0 (91.6)

Locations of tests: DAEMTC (The Directorate of Agricultural Equipment and Machinery Testing Centre) Ankara, Turkey and CNH America LLC Burr Ridge, IL USA

Dates of Test: PTO & Drwb: March - July, 2002
 Sound tests: December 2, 2003
 Hydraulic flow; August 8, 2003
 Lift tests: August 8, 2003

Manufacturer: CNH America LLC, 700 State St. Racine, Wi. 53404 USA

FUEL and OIL: Fuel No. 2 Diesel **Specific gravity converted to 60°/60° F (15°/15°C)** 0.829
Fuel weight 6.90 lbs/gal (0.827 kg/l) **Oil SAE** 20W-50 **API service classification** CF-4/SG
Transmission and hydraulic lubricant BP Terrac Tractan 8 fluid **Front axle lubricant** BP Terrac Tractan 8 fluid

ENGINE: Make Iveco Diesel **Type** four cylinder vertical with turbocharger **Serial No.** 795232
Crankshaft lengthwise **Rated engine speed** 2500
Bore and stroke 4.094" x 4.528" (104.0 mm x 115.0 mm) **Compression ratio** 17.0 to 1
Displacement 238 cu in (3908 ml) **Starting system** 12 volt **Lubrication** pressure **Air cleaner** paper element **Oil filter** two cartridges **Oil cooler** engine coolant heat exchanger for crankcase oil **Fuel filter** one paper element **Muffler** underhood **Exhaust** vertical **Cooling medium temperature control** thermostat

CHASSIS: **Type** 2WD & front wheel assist **Serial No.** 2WD - HFD000032, FWA-HFD000260
Tread width rear 59.4" (1508 mm) to 79.1" (2008 mm) front 2WD - 55.1" (1399 mm) to 70.8" (1799 mm) FWA-64.2" (1630 mm) to 77.0" (1955 mm)
Wheel base 2WD - 94.0" (2388 mm), FWA-91.8" (2332 mm) **Hydraulic control system** direct engine drive **Transmission** selective gear fixed ratio **Nominal travel speeds mph (km/h)** first 1.12 (1.81) second 1.63 (2.62) third 2.35 (3.78) fourth 2.62 (4.22) fifth 3.37 (5.42) sixth 3.81 (6.13) seventh 5.49 (8.83) eighth 6.16 (9.92) ninth 7.86 (12.65) tenth 8.96 (14.42) eleventh 12.92 (20.79) twelfth 18.50 (29.78) reverse 1.12 (1.81), 1.63 (2.63), 2.36 (3.79), 2.63 (4.23), 3.37 (5.43), 3.82 (6.14), 5.51 (8.86), 6.18 (9.95), 7.88 (12.68), 8.99 (14.46), 12.96 (20.85), 18.55 (29.86) **Clutch** dual dry disc operated by foot pedal **Brakes** wet disc operated by two foot pedals which can be locked together **Steering** hydrostatic **Power take-off** 540 rpm at 2200 engine rpm and 1000 rpm at 2382 engine rpm **Unladen tractor mass** 2WD - 6790 lb (3080 kg), FWA - 7615 lb (3454 kg)

**DRAWBAR PERFORMANCE
(Unballasted – Front Drive Engaged)
MAXIMUM POWER IN SELECTED GEARS**

Power Hp (kW)	Drawbar pull lbs (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel Consumption lb/hp.hr (kg/kW.h)	Consumption Hp.hr/gal (kW.h/l)	Temp. °F (°C) cool- ing med	Air dry bulb	Barom. inch Hg (kPa)
7th (II-3) Gear									
56.1 (41.9)	4115 (18.31)	5.12 (8.23)	2592	14.9	0.569 (0.346)	12.13 (2.39)	181 (83)	81 (27)	27.1 (91.7)
8th (III-1) Gear									
61.3 (45.7)	4045 (17.99)	5.68 (9.15)	2565	15.0	0.544 (0.331)	12.69 (2.50)	181 (83)	81 (27)	27.1 (91.7)
9th (II-4) Gear									
66.2 (49.4)	3585 (15.94)	6.93 (11.15)	2352	11.4	0.496 (0.302)	13.91 (2.74)	181 (83)	81 (27)	27.1 (91.7)
10th (III-2) Gear									
68.0 (50.7)	3235 (14.38)	7.88 (12.68)	2340	11.3	0.483 (0.294)	14.30 (2.82)	181 (83)	81 (27)	27.1 (91.7)

REPAIRS AND ADJUSTMENTS: No repairs or adjustments

NOTE: The PTO and drawbar results shown on this report are from tests conducted on the New Holland TD 95D.

REMARKS: All test results were determined from observed data obtained in accordance with official OECD test procedures. This tractor did not meet the manufacturer's claim of 3 point lift capacity of 5975 lbs (2710 kg). The performance results on this summary were taken from OECD tests conducted under the Code II Test Code procedure.

We, the undersigned, certify that this is a true summary of data from OECD Reports No. **2023** & **2024**, Nebraska Summary 406, January 14, 2004.

Leonard L. Bashford
Director

M.F. Kocher
V.I. Adamchuk
W.P. Campbell
Board of Tractor Test Engineers

TRACTOR SOUND LEVEL WITH CAB	Front Wheel Drive	
	Engaged dB(A)	Disengaged dB(A)
At no load in 7th(II-3) Gear	87.9	88.5
Bystander	-	-

Tested Without Ballast

TIRES AND WEIGHT	Front Wheel Assist	2WD
	Rear tires - No., size, ply & psi(kPa)	Two 18.4R34; **, 22(150)
Front tires - No., size, ply & psi(kPa)	Two 14.9R24; **, 32(220)	Two 7.50-20; 6; 32 (220)
Height of Drawbar	18.1 in(460 mm)	18.1 in (460 mm)
Static Weight with operator- Rear	4675 lb (2120 kg)	4725 lb (2143 kg)
- Front	3105 lb (1409 kg)	2230 lb (1012 kg)
- Total	7780 lb (3529 kg)	6955 lb (3155 kg)

DRAWBAR PERFORMANCE

(Unballasted - 2WD)

FUEL CONSUMPTION CHARACTERISTICS

Power Hp (kW)	Drawbar pull lbs (kN)	Speed mph (km/h)	Crank- shaft speed rpm	Slip %	Fuel lb/hp.hr (kg/kW.h)	Consumption Hp.hr/gal (kW.h/l)	Temp. °F cool- ing med	°C Air dry bulb	Barom. inch Hg (kPa)
Maximum Power—10th(III-2) Gear									
60.6 (45.2)	2695 (12.00)	8.42 (13.55)	2490	8.4	0.517 (0.314)	13.35 (2.63)	169 (76)	75 (24)	27.0 (91.6)
75% of Pull at Maximum Power—10th(III-2) Gear									
47.8 (35.6)	2025 (9.00)	8.85 (14.25)	2600	7.7	0.610 (0.371)	11.32 (2.23)	169 (76)	75 (24)	27.0 (91.6)
50% of Pull at Maximum Power—10th(III-2) Gear									
32.6 (24.3)	1350 (6.00)	9.06 (14.58)	2637	6.9	0.660 (0.401)	10.46 (2.06)	169 (76)	75 (24)	27.0 (91.6)
75% of Pull at Reduced Engine Speed—11th(III-3) Gear									
48.4 (36.1)	2030 (9.04)	8.94 (14.39)	1824	7.8	0.451 (0.274)	15.29 (3.01)	169 (76)	75 (24)	27.0 (91.6)
50% of Pull at Reduced Engine Speed—11th(III-3) Gear									
32.1 (24.0)	1315 (5.86)	9.15 (14.73)	1852	7.1	0.473 (0.288)	14.57 (2.87)	169 (76)	75 (24)	27.0 (91.6)

MAXIMUM POWER IN SELECTED GEARS

6th(II-2) Gear									
29.8 (22.2)	3195 (14.20)	3.50 (5.63)	2629	15.1	0.758 (0.461)	9.14 (1.80)	169 (76)	73 (23)	27.0 (91.6)
7th(II-3) Gear									
41.2 (30.7)	3050 (13.57)	5.06 (8.15)	2624	14.6	0.659 (0.401)	10.46 (2.06)	181 (83)	77 (23)	27.2 (91.6)
8th(III-1) Gear									
46.8 (34.9)	3025 (13.45)	5.81 (9.35)	2610	12.3	0.621 (0.378)	11.12 (2.19)	181 (83)	77 (23)	27.0 (91.6)
9th(II-4) Gear									
57.7 (43.0)	3040 (13.52)	7.12 (11.45)	2479	11.3	0.534 (0.325)	12.89 (2.54)	181 (83)	77 (23)	27.2 (91.6)
10th(III-2) Gear									
63.6 (47.4)	3010 (13.38)	7.93 (12.76)	2360	9.8	0.492 (0.299)	14.06 (2.77)	181 (83)	77 (23)	27.0 (91.6)

THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II

Quick Attach: none

Maximum Force Exerted Through Whole Range: 3820 lbs (17.0 kN)

- i) Opening pressure of relief valve: NA
- Sustained pressure of the open relief valve: 2680 psi (185 bar)
- ii) Pump delivery rate at minimum pressure and rated engine speed: 11.9 GPM (45.2 l/min)
- iii) Pump delivery rate at maximum hydraulic power: 9.5 GPM (35.9 l/min)
- Delivery pressure: 2314 psi (160 bar)
- Power: 12.8 HP (9.5 kW)

THREE POINT HITCH PERFORMANCE

Observed Maximum Pressure psi. (bar)	2790 (192)
Location:	hydraulic manifold
Hydraulic oil temperature: °F (°C)	149 (65)
Location:	hydraulic sump
Category:	II
Quick attach:	none

SAE Static Test—System pressure 2430 psi (167 Bar)

Hitch point distance to ground level in. (mm)	9.0 (228)	16.0 (406)	23.0 (585)	30.0 (762)	37.0 (939)
Lift force on frame lb	5906	6092	5726	5835	5275
" " " " " " (kN)	(26.3)	(27.1)	(25.5)	(26.0)	(23.5)

HITCH DIMENSIONS AS TESTED—NO LOAD

	OECD test		SAE test	
	inch	mm	inch	mm
A	32.7	830	32.8	835
B	9.8	250	9.8	250
C	11.8	299	11.8	299
D	11.7	298	11.7	298
E	8.0	203	10.0	253
F	7.9	200	7.9	200
G	30.3	770	30.3	770
H	0.4	10	0.4	10
I	6.9	176	6.3	161
J	22.4	570	22.4	570
K	18.5	470	21.7	550
L	39.8	1010	39.8	1010
M	28.3	718	28.3	718
N	38.2	970	38.2	970
O	8.1	205	9.0	229
P	46.5	1180	41.4	1052
Q	35.6	905	35.3	895
R	25.0	635	26.5	673

